

FLOATING HEAD LIQUID DISPENSER WITH DISPENSING HEAD SENSOR

ABSTRACT

A floating head liquid dispenser includes a robotic control mechanism for moving a support member toward and away from a substrate. A liquid dispensing head is operatively connected to the support member for movement relative thereto upon contact with the substrate. A linear displacement sensor is operatively connected to the support member and the liquid dispensing head so that displacement of the liquid dispensing head relative to the support member is sensed upon contact of the dispensing head with the substrate. The floating head liquid dispenser stops movement of the support member and dispensing head toward the substrate when the displacement is sensed to ensure proper positioning of the dispensing head relative to the substrate during a liquid dispensing cycle.